

**Notice of Allowability**

Application No.

09/642,533

Examiner

Sherali Ishrat

Applicant(s)

LUO ET AL.

Art Unit

2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/20/2006.
2. ☒ The allowed claim(s) is/are 91, 94-99, 101-106, 121-125, 153-172 (renumbered as 1-38).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☒ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date See Continuation Sheet
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 1/2/07

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other \_\_\_\_\_

ISHRAT SHERALI  
PRIMARY PATENT EXAMINER

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 8/11/06;9/11/00;8/18/00.

## Oath

1. The oath is deficient because oath is not signed by all inventors.

Substitute oath is required.

## Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Robert Luke Walker on 01/02/ 2007.

### IN THE CLAIMS:

Claim 91, line 1, after "A", insert --computer--.

Claim 91, line 2, after "having", insert, -- a main subject and a background

--.

Claim 91, line 3, delete "a" and insert --the--.

Claim 91, line 6, delete "wherein said steps are without manual intervention and".

Claim 91, line 7, after "subject", delete "." and insert -- ; and wherein said identifying further comprises: segmenting said image into a plurality of regions; and generating a plurality of belief values, each said belief value being

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associated with one of a plurality of regions of the image, said belief values each being related to the probability that the associated region is a main subject of the image, to provide a main subject belief map. --

Cancel claim 93.

Claim 106, line 2, after "having", insert, -- a main subject and a background --.

Claim 106, line 3, delete "a" and insert --the--.

Claim 106, line 7, after "subject", delete "." and insert -- ; and wherein said means for identifying further comprises: segmenting said image into a plurality of regions; and generating a plurality of belief values, each said belief value being associated with one of a plurality of regions of the image, said belief values each being related to the probability that the associated region is a main subject of the image, to provide a main subject belief map. --.

Claim 121, line 1, after "A", insert --computer--.

Claim 121, line 2, after "having", insert, -- a main subject and a background --.

Claim 121, line 5, delete "a" and insert --the--.

Claim 121, line 10, delete "wherein said steps are without manual intervention".

Claim 154, line 1, delete "93" and insert "91"

Claim 157, line 2, after first occurrence of "image", insert, -- having a main subject and a background pixels --.

Claim 157, line 6, delete first occurrence of "a" and insert --the--.

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Claim 157, line 6, delete second occurrence of "a" and insert --the--.

Claim 157, line 11, after "intervention", delete "." And insert -- ; and wherein said identifying further comprises: segmenting said image into a plurality of regions; and generating a plurality of belief values, each said belief value being associated with one of a plurality of regions of the image, said belief values each being related to the probability that the associated region is a main subject of the image, to provide a main subject belief map. --.

Claim 164, line 2, after first occurrence of "image", insert, -- having a main subject and a background pixels - -.

Claim 164, line 6, delete "a" and insert --the--.

Claim 164, line 12, after "intervention", delete "." And insert -- ; and wherein said computing further comprises: generating a plurality of belief values, each said belief value being associated with one of a plurality of regions of the image, said belief values each being related to the probability that the associated region is a main subject of the image, to provide a main subject belief map. --.

## **Communication**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherali Ishrat whose telephone number is 571-272-7398. The examiner can normally be reached on 8:00 AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 571-272-7778. The fax

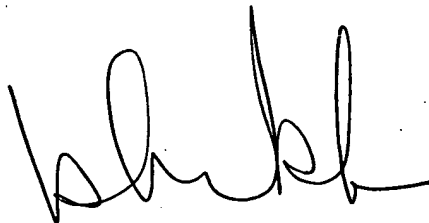
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phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ishrat Sherali

January 2, 2007



**ISHRAT SHERALI  
PRIMARY PATENT EXAMINER**